

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Virginia 22313-1450 www.uspro.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

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29171

7590

06/27/2003

BATTELLE MEMORIAL INSTITUTE ATTN: STEPHEN R. MAY MSIN K1-53 P. O. BOX 999 RICHLAND, WA 99352 EXAMINER

TRAN, HIEN THI

ART UNIT

CLASS-SUBCLASS

1764

422-190000

DATE MAILED: 06/27/2003

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038.228	01/03/2002	Yong Wang	B-1484 DIV	1256

TITLE OF INVENTION: CATALYST STRUCTURE AND METHOD OF FISCHER-TROPSCH SYNTHESIS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	09/29/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT, SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner for Patents** Alexandria, Virginia 22313-1450

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further correspondence including t indicated unless corrected below or directed otherw maintenance fee notifications.	the Patent, advance orders wise in Block 1, by (a) sp	s and notification of secifying a new corr	maintenancè fe espondence add	es will be mailed to the current	correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Noie: Legibly ma 29171 7590 06/27/200 BATTELLE MEMORIAL INSTIT	UTE	i	ee(s) Transmi ccompanying p	nte of mailing can only be used for ttal. This certificate cannot papers. Each additional paper, s must have its own certificate of n	be used for any other such as an assignment or
ATTN: STEPHEN R. MAY MSIN K1 P. O. BOX 999 RICHLAND, WA 99352	-53	(	Jnited States Po nvelope address	Certificate of Mailing or Trans that this Fee(s) Transmittal is stal Service with sufficient posta; sed to the Box Issue Fee address e USPTO, on the date indicated b	being deposited with the ge for first class mail in an above, or being facsimile
					(Depositor's name
					(Signature
					(Date
APPLICATION NO. FILING DATE	FIR	ST NAMED INVENTO	R	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,228 01/03/2002		Yong Wang		B-1484 DIV	1256
TITLE OF INVENTION: CATALYST STRUCTUR					
APPLN. TYPE SMALL ENTITY	ISSUE FEE		TION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional NO	\$1300	\$	300	\$1600	09/29/2003
EXAMINER	ART UNIT	CLASS-SUBCLAS	s		
TRAN, HIEN THI	1764	422-190000			
1. Change of correspondence address or indication of CFR 1.363).	of "Fee Address" (37	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a			
☐ Change of correspondence address (or Change of Address form PTO/SB/122) attached.	of Correspondence	single firm (havin	ig as a memb	er a registered	
☐ "Fee Address" indication (or "Fee Address" Ind PTO/SB/47; Rev 03-02 or more recent) attached. Number is required.		attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME AND RESIDENCE DATA TO PLEASE NOTE; Unless an assignee is identified been previously submitted to the USPTO or is being (A) NAME OF ASSIGNEE	pelow, no assignee data w g submitted under separate	ill appear on the pate	nt. Inclusion of f this form is N	OT a substitute for filing an assig	e when an assignment has nment.
Please check the appropriate assignee category or cate	egories (will not be printe	d on the patent)	☐ individual	☐ corporation or other private gr	oup entity  government
4a. The following fee(s) are enclosed:	4b. Pay	yment of Fee(s):		<u>_</u>	
☐ Issue Fee	_	neck in the amount of			
☐ Publication Fee	•	syment by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies	- Deposi	it Account Number _	eby authorized t	by charge the required fee(s), or c (enclose an extra copy of this f	redit any overpayment, to orm).
Commissioner for Patents is requested to apply the Is	sue Fee and Publication F	ee (if any) or to re-ap	ply any previou	ısly paid issue fee to the applicati	on identified above.
(Authorized Signature)	(Date)				
NOTE; The Issue Fee and Publication Fee (if req other than the applicant; a registered attorney or interest as shown by the records of the United States	agent; or the assignee of s Patent and Trademark O	or other party in ffice.			
This collection of information is required by 37 C obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.0 estimated to take 12 minutes to complete, including completed application form to the USPTO. Time case. Any comments on the amount of time yo suggestions for reducing this burden, should be separated and Trademark Office, U.S. Departmer 22313-1450. DO NOT SEND FEES OR COMP SEND TO: Commissioner for Patents, Alexandria, V.	FR 1.311. The information file (and by the USPTC 1.122 and 37 CFR 1.14.7 g gathering, preparing, an will vary depending upon require to complete the tothe Chief Informating to Commerce, Alexa ULETED FORMS TO TIVirginia 22313-1450.	on is required to D to process) an This collection is d submitting the n the individual his form and/or on Officer, U.S. andria, Virginia HIS ADDRESS.			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Dox 1450 Alexandria, Viginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/038,228 01/03/2002		Yong Wang	B-1484 DIV	1256		
29171	7590 06/27/2003		EXAMIN	ER		
	BATTELLE MEMORIAL INSTITUTE ATTN: STEPHEN R. MAY MSIN K1-53			TRAN, HIEN THI		
P. O. BOX 999	DIVIN. MITTI MONVINI		ART UNIT	PAPER NUMBER		
RICHLAND, W	'A 99352		1764			
			DATE MAILED: 06/27/2003			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/038,228	01/03/2002	Yong Wang	B-1484 DIV 1256		
29171 75	590 06/27/2003		EXAMIN	ER	
BATTELLE MEMORIAL INSTITUTE ATTN: STEPHEN R. MAY MSIN K1-53			TRAN, HIEN THI		
P. O. BOX 999			ART UNIT	PAPER NUMBER	
RICHLAND, WA 99352			1764		
UNITED STATES		D	DATE MAILED: 06/27/2003		

## Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
Nation of Allowability	10/038,228	WANG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Hien Tran	1764	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSE or other appropriate con IGHTS. This application	D in this application. If not inclund munication will be mailed in du	ded e course. THIS
1.   This communication is responsive to the amendment and to	terminal disclaimer filed	4/7/03 . ·	
2. X The allowed claim(s) is/are 16-33.		<del></del> -	
3. The drawings filed on are accepted by the Examine	r.		
4. Acknowledgment is made of a claim for foreign priority und		l) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Applic	ation No	
<ol> <li>Copies of the certified copies of the priority does</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been rece	ived in this national stage applic	ation from the
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. § 119(e)	(to a provisional application).	,
(a) The translation of the foreign language provisional a	pplication has been rece	ived.	
6. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. §§ 120 ar	nd/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of			
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas			NOTICE OF
8. X CORRECTED DRAWINGS must be submitted.	•		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Re	view ( PTO-948) attached	
1) hereto or 2) to Paper No.			
(b) ⊠ including changes required by the proposed drawing of	correction filed 07 April 2	2003. which has been approved	by the Examiner
(c) ☐ including changes required by the attached Examiner			
(o) 🗀 molecung on angoon of an orange of an			
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should be written o	on the drawings in the front (not the	ne back) of
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T			. Note the
Attachmant/a	•		
Attachment(s)			
1 Notice of References Cited (PTO-892)		e of Informal Patent Application	
<ul> <li>3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No</li> </ul>		view Summary (PTO-413), Pape niner's Amendment/Comment	я NO. <u>IZ</u> .
<ul> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit</li> </ul>		niner's Amendment of Reasons fo	r Allowance
of Biological Material	9☐ Othe	r	
		then 7 10	111
		Hien Tran	_
		Primary Examiner Art Unit: 1764	

U.S. Patent and Trademark Office PTO-37 (Rev. 04-03) Application/Control Number: 10/038,228

Art Unit: 1764

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frank S. Rosenberg on 6/26/03.

The application has been amended as follows:

IN THE SPECIFICATION:

On page 3, line 24, insert B3, line 2 --reaction chamber 4-- has been inserted after "microchannel".

2. The following is an examiner's statement of reasons for allowance: The prior art of record does not teach a reactor with all of the elements set forth in the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Tran whose telephone number is 308-4253. The examiner can normally be reached on Tuesday-Friday from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (703) 308-6824. The fax phone numbers for the

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Application/Control Number: 10/038,228

Art Unit: 1764

organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0661.

then Tran

HT June 26, 2003 Hien Tran Primary Examiner Art Unit 1764 Page 3